

In the Claims

Please amend the claims as follows:

1 23.-58. (canceled)

1 80.-115. (canceled)

1 116. (Previously added) A monomer composition characterized by being curable
2 and which is cured by reacting the composition at an elevated temperature to form
3 a homogeneous terpolymer resin of the monomer composition which terpolymer
4 has a single glass transition temperature, does not have any phase separation and is
5 optically clear consisting essentially of:

6 a first monomer represented by the formula:

7
$$R(NCY)_x$$

8 wherein R is a hydrocarbon or substituted hydrocarbon radical, Y is oxygen or
9 sulfur and x is two or more;

10 a second polyene monomer wherein the polyene contains only vinyl functional
11 groups; and

12 a third polythiol monomer.

1 117. (Previously added) The composition of claim 116 wherein Y is oxygen.

1 118. (Previously added) The composition of claim 117 wherein the polyene is
 2 represented by the formula:



4 wherein R_1 is H or CH_3 ; A is oxygen, sulfur, or NH; R_2 is a polyvalent aliphatic,
 5 alicyclic or aromatic hydrocarbon residue, and y is 2-6.

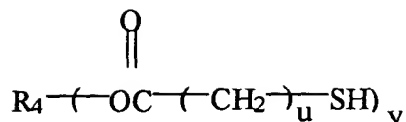
1 119. (Previously added) The composition of claim 118 wherein the
 2 polyisocyanate monomer is an aromatic diisocyanate.

1 120. (Previously added) The composition of claim 119 wherein the polyene
 2 monomer is a tri, or tetraacrylate compound.

1 121. (Currently amended) The composition of claim 120 wherein the polythiol
 2 monomer is selected from the group consisting of a compound represented by the
 3 formula:



5 wherein R_3 is an organic group selected from the group consisting of polyvalent
 6 aliphatic or alicyclic and aromatic hydrocarbons, z is an integer of 1 to 3,
 7 and B is S; and



wherein R_4 is a substituted or unsubstituted aliphatic polyhydric alcohol residue,

u is an integer of 1 or 2, and v is an integer of 2 to 4.

122. (Previously added) The composition of claim 121 wherein the polyisocyanate is *m*-xylylene diisocyanate, the polyene is pentaerythritol tetraacrylate, and the polythiol is selected from the group consisting of pentaerythritol tetrakis(2-mercaptoacetate), 1,2-ethanedithiol and mixtures thereof.

123. (Previously added) The composition of claim 116 wherein the polyene is triallyl-1,3, 5-triazine-2,4,6(1H, 3H, 5H)-trione.

124. (Previously added) A process for making homogeneous terpolymer resins which terpolymers have a single glass transition temperature, do not have any phase separation and which are optically clear comprising reacting at an elevated temperature a curable composition consisting essentially of the composition of claim 116.

125. (Previously added) The process of claim 124 wherein the monomers are admixed under non-reactive conditions.

1 126. (Previously added) The process of claim 124 wherein the monomers are
2 admixed at a temperature of room temperature or below.

1 127. (Previously added) The process of claim 126 wherein an initiator and a
2 reaction catalyst are added to the composition.

1 128. (Previously added) The process of claim 127 wherein the initiator is 1,1'-
2 azobis(cyclohexanecarbonitrile) and a reaction catalyst is dibutyltindilaurate or
3 tributylamine.

1 129. (Previously added) The process of claim 124 wherein the composition is
2 cured by heating the composition to a first temperature of about 0° to 60°C, then
3 heating the composition gradually to a second temperature of about 100 to 150°C
4 over a period of about 1 to 32 hours, maintaining the composition at the second
5 temperature for about 4 to 32 hours, then cooling the composition to a third
6 temperature of about 20 to 40°C over a period of about 1 to 32 hours.

1 130. (Previously added) The composition of claim 116 wherein photochromic
2 materials are used to provide a tinted optical product.

1 131. (Previously added) The composition of claim 130 wherein the
2 photochromic materials are naphthopyran compounds, spiro compounds or
3 indoline compounds.

1 132. (Previously added) A terpolymer product made by polymerizing the
2 composition of claim 116.

1 133. (Previously added) A polymer product made by polymerizing the
2 composition of claim 121.

1 134.-135. (canceled)